

# List of All Chemicals

## P Isodon grandifolius (Lamiaceae)

### How used

Medicinal

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
CARNOSOL	Leaf	--	448.0	-0.59	Wu, S. H., Zhang, H. J., Lin, Z. W., Sun, H. D. 1993. Terpenoids from <i>Isodon grandifolia</i> var. <i>atuntzensis</i> . <i>Phytochemistry</i> , 344: 1176-1178.

### Activities (20)

5-Lipoxygenase-Inhibitor  
IC50 ( $\mu$ M)=2

AntiHIV	J. Nat. Prod. 56: 1426.
Antibiotic	Encarnacion Dimayuga, R., Keer Garcia, S., Halfdan Nielsen, P., and Christoffersen, C. 1989. Traditional Medicine of Baja California Sur (Mexico) III. Carnosol: A Diterpene Antibiotic from <i>Lepechinia hastata</i> . <i>J. Ethnopharmacology</i> , 31: 43-48, 1991.
Antihepatotoxic	Joyeux, M., Rolland, A., Fleurentin, J., Mortier, F., and Dorfman, P. 1989. Tert-Butyl Hydroperoxide-Induced Injury in Isolated Rat Hepatocytes: A Model for Studying Anti-Hepatotoxic Crude Drugs. <i>Planta Medica</i> 56(2): 171-173, 1990.
Antiinflammatory	McEvily, A.J., Iyengar, R., and Gross, A.T. Inhibition of Polyphenol Oxidase by Phenolic Compounds. Phenolic Compounds in Food and Their Effects on Health, Ch.25.
Antilipoperoxidant	Joyeux, M., Rolland, A., Fleurentin, J., Mortier, F., and Dorfman, P. 1989. Tert-Butyl Hydroperoxide-Induced Injury in Isolated Rat Hepatocytes: A Model for Studying Anti-Hepatotoxic Crude Drugs. <i>Planta Medica</i> 56(2): 171-173, 1990.
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antioxidant	McEvily, A.J., Iyengar, R., and Gross, A.T. Inhibition of Polyphenol Oxidase by Phenolic Compounds. Phenolic Compounds in Food and Their Effects on Health, Ch.25.
Antiradicular	Joyeux, M., Rolland, A., Fleurentin, J., Mortier, F., and Dorfman, P. 1989. Tert-Butyl Hydroperoxide-Induced Injury in Isolated Rat Hepatocytes: A Model for Studying Anti-Hepatotoxic Crude Drugs. <i>Planta Medica</i> 56(2): 171-173, 1990.
Antitumor	McEvily, A.J., Iyengar, R., and Gross, A.T. Inhibition of Polyphenol Oxidase by Phenolic Compounds. Phenolic Compounds in Food and Their Effects on Health, Ch.25.
Antitumor-Promoter	McEvily, A.J., Iyengar, R., and Gross, A.T. Inhibition of Polyphenol Oxidase by Phenolic Compounds. Phenolic Compounds in Food and Their Effects on Health, Ch.25.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Encarnacion Dimayuga, R., Keer Garcia, S., Halfdan Nielsen, P., and Christoffersen, C. 1989. Traditional Medicine of Baja California Sur (Mexico) III. Carnosol: A Diterpene Antibiotic from <i>Lepechinia hastata</i> . <i>J. Ethnopharmacology</i> , 31: 43-48, 1991.
Cyclooxygenase-Inhibitor IC50 ( $\mu$ M)=16	
Fungicide	Encarnacion Dimayuga, R., Keer Garcia, S., Halfdan Nielsen, P., and Christoffersen, C. 1989. Traditional Medicine of Baja California Sur (Mexico) III. Carnosol: A Diterpene Antibiotic from <i>Lepechinia hastata</i> . <i>J. Ethnopharmacology</i> , 31: 43-48, 1991.
Metal-Chelator	McEvily, A.J., Iyengar, R., and Gross, A.T. Inhibition of Polyphenol Oxidase by Phenolic Compounds. Phenolic Compounds in Food and Their Effects on Health, Ch.25.
Ornithine-Decarboxylase-Inhibitor	McEvily, A.J., Iyengar, R., and Gross, A.T. Inhibition of Polyphenol Oxidase by Phenolic Compounds. Phenolic Compounds in Food and Their Effects on Health, Ch.25.
Pesticide	
Protease-Inhibitor	J. Nat. Prod. 56: 1426.
Quinone-Reductase-Inducer 100 mg/kg ipr rat	Singletary, K. W. 1996. Rosemary Extract and Carnosol Stimulate Rat Liver Glutathione-s-transferase and Quinone Reductase Activities. <i>Cancer Lett.</i> , 100: 139-144.